AASHTO PROJECT DELIVERY JOINT TECHNICAL COMMITTEE SURVEY

Presentation at the 2011 Joint AASHTO Subcommittee on Design and Subcommittee on Right-of-way and Utilities Meeting
May 9-13, 2011

A PRELIMINARY OVERVIEW OF RESULTS

AASHTO PROJECT DELIVERY JOINT TECHNICAL COMMITTEE SURVEY INTRODUCTION

The Project Delivery Joint Technical Committee

- Is responsible for looking at cross-cutting project delivery and project management issues:

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Cross Cutting Issues:

- Project management issues in which coordination of project schedules includes coordinating between disciplines, such as between planning, right-of-way, environmental, context sensitive solutions, design and construction.

- The effects of innovative contracting methods which may blur the lines between planning environmental and design such as occurs in design-build projects versus design-bid-build projects.

- The effects of environmental commitments made during the environmental phase upon issues in design and construction.

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Cross Cutting Issues:

- The development of improved project-management skills for transportation personnel.
- The engagement of the design and construction personnel in the discussion of environmental streamlining.
- Innovations in project-delivery techniques such as expanded use of standardized drawings, accelerated construction techniques, and contract incentives.
- Innovations in project delivery in the area of accelerated right-of-way acquisition and utility coordination.

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The Charge:

- Develop guidance, procedures and processes to streamline the coordination and management of **cross-cutting project delivery management** issues.
- Develop guidance, policy and procedures to accommodate expansion of **innovative contracting** methods.
- Develop a process to produce research, best practices, policies and procedures to **promote advances in project delivery** time cost and quality.
- Engage stakeholders from cross-cutting areas including roadway design, structures and construction to **promote innovative construction processes** to improve construction schedule, cost and quality.

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The Charge:

- Engage and coordinate with FHWA to address issues related to project delivery. Collaborate and coordinate with FHWA to successfully implement **SHRP2 capacity related implementation projects**, research and address related issues.

- Devise a meeting format or communication process which **creates cross-discipline communication** between the fields of planning, environmental, roadway design, structures, right-of-way, utilities, railroad coordination, and construction.

- **Recognize limitation** in time, travel budgets and AASHTO staff support which face all AASHTO bodies.

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TEAM MEMBERS

Chair (SCOH Member) – Terry Gibson, NC DOT, tgibson@ncdot.gov

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TEAM MEMBERS

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BACKGROUND

- Survey pertaining to streamlining project development process was conducted in March 2011
- Survey was sent to all Standing Committees at AASTHO and all Subcommittees under SCOH
- 114 individual responses
  - 44 states and D.C.
  - 7 of 9 standing committees, all 9 subcommittees under SCOH

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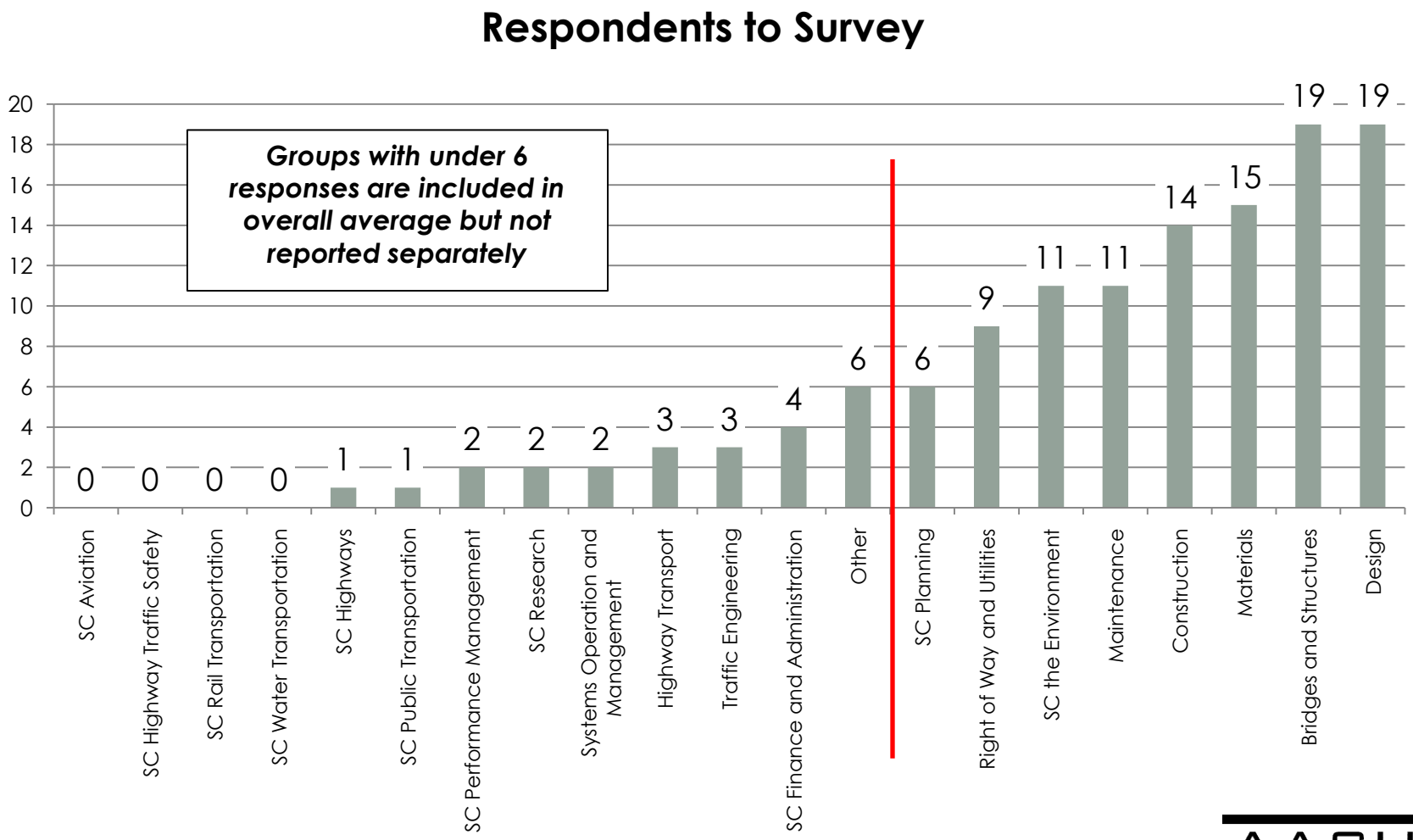
Committee & Sub-Committee Response



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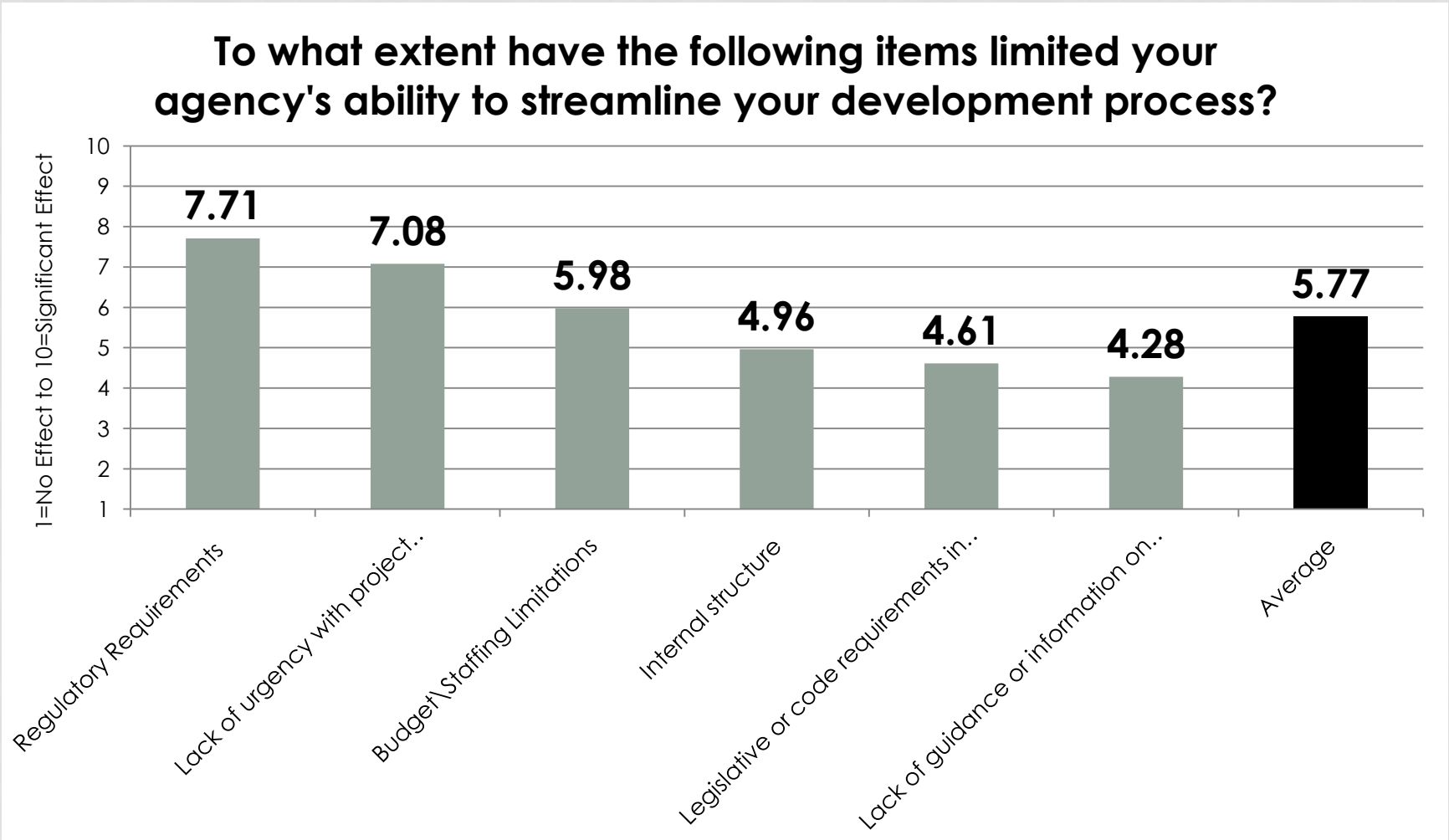
QUESTION 1 – Limitations to Development Process *(Overall Averages)*



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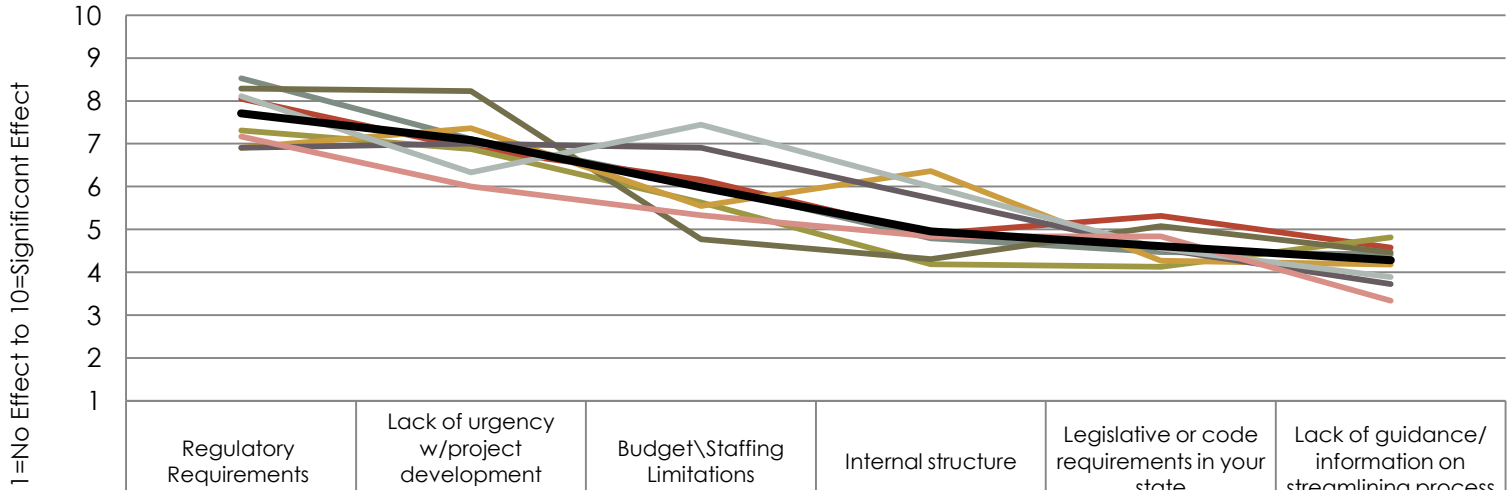
QUESTION 1 – Limitations to Development Process *(Sub-Group Averages)*

To what extent have the following items limited your agency's ability to streamline your development process?



	Regulatory Requirements	Lack of urgency w/project development partners	Budget\Staffing Limitations	Internal structure	Legislative or code requirements in your state	Lack of guidance/ information on streamlining process
Design	8.53	7.11	6.05	4.79	4.47	4.42
Bridges & Structures	8.05	6.89	6.16	4.89	5.32	4.58
Materials	7.31	6.88	5.63	4.19	4.13	4.81
Construction	8.29	8.23	4.77	4.31	5.08	4.46
Maintenance	6.91	7.36	5.55	6.36	4.27	4.18
Environment	6.91	7.00	6.91	5.73	4.55	3.73
ROW	8.11	6.33	7.44	6.00	4.56	3.89
Planning	7.17	6.00	5.33	4.83	4.83	3.33
OVERALL	7.71	7.08	5.98	4.96	4.61	4.28

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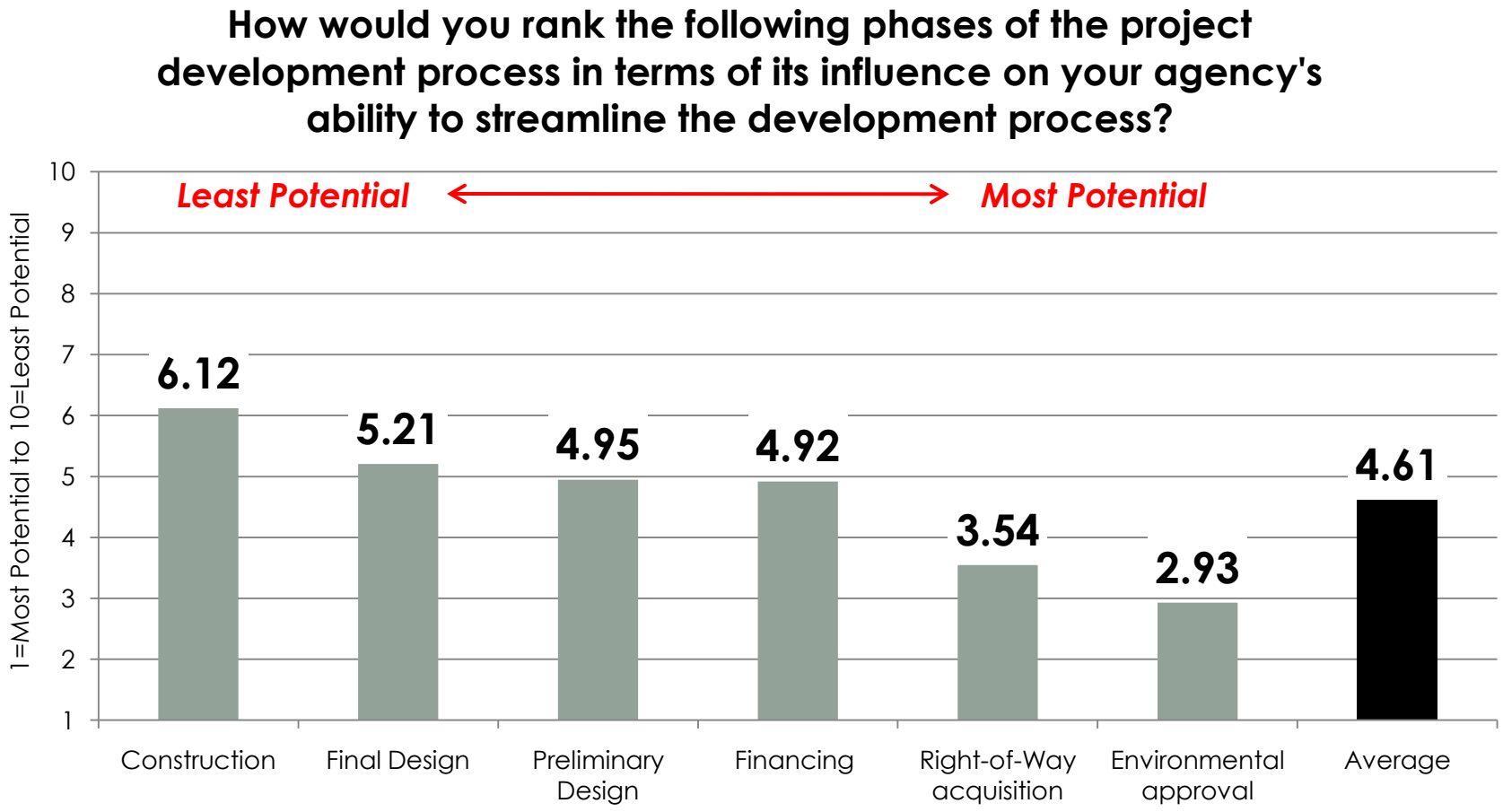
QUESTION 2 – Influence of Phases *(Overall Averages)*



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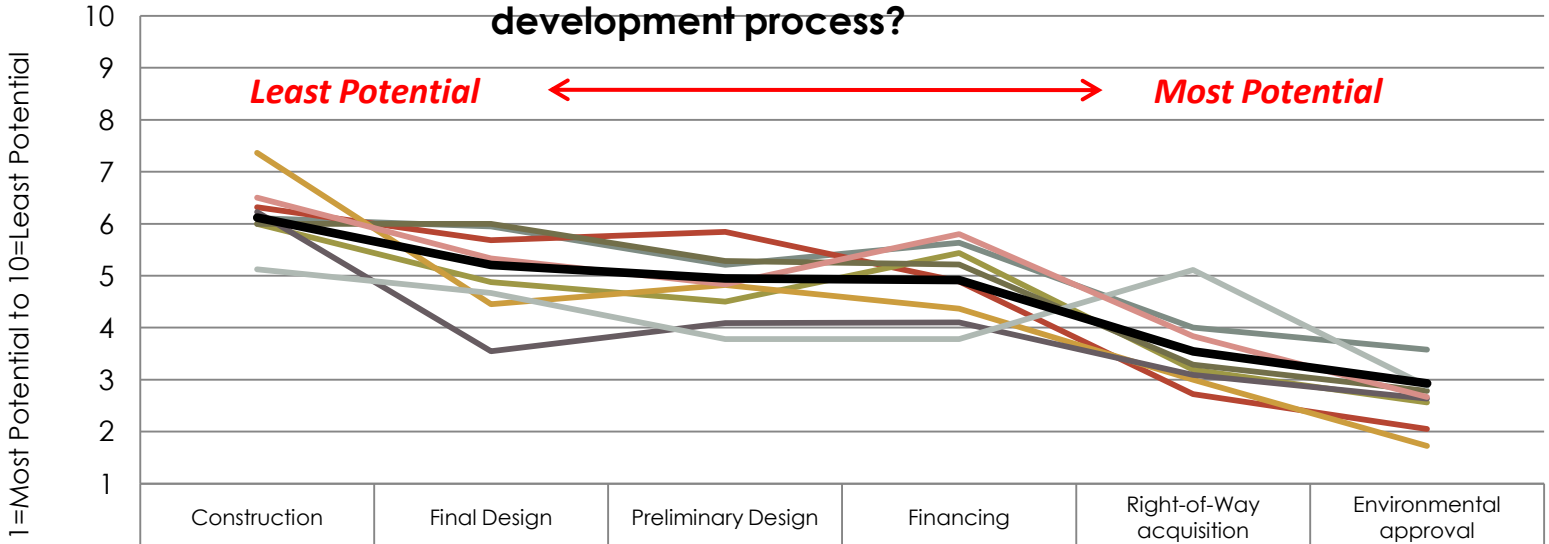
QUESTION 2 – Influence of Phases *(Sub-Group Averages)*

How would you rank the following phases of the project development process in terms of its influence on your agency's ability to streamline the development process?



	Construction	Final Design	Preliminary Design	Financing	Right-of-Way acquisition	Environmental approval
Design	6.11	5.95	5.21	5.63	4.00	3.58
Bridges & Structures	6.32	5.68	5.84	4.89	2.72	2.05
Materials	6.00	4.88	4.50	5.44	3.19	2.56
Construction	6.00	6.00	5.29	5.21	3.29	2.79
Maintenance	7.36	4.45	4.82	4.36	3.00	1.73
Environment	6.22	3.55	4.09	4.10	3.09	2.64
ROW	5.12	4.67	3.78	3.78	5.11	2.88
Planning	6.50	5.33	4.83	5.80	3.83	2.67
OVERALL	6.12	5.21	4.95	4.92	3.54	2.93

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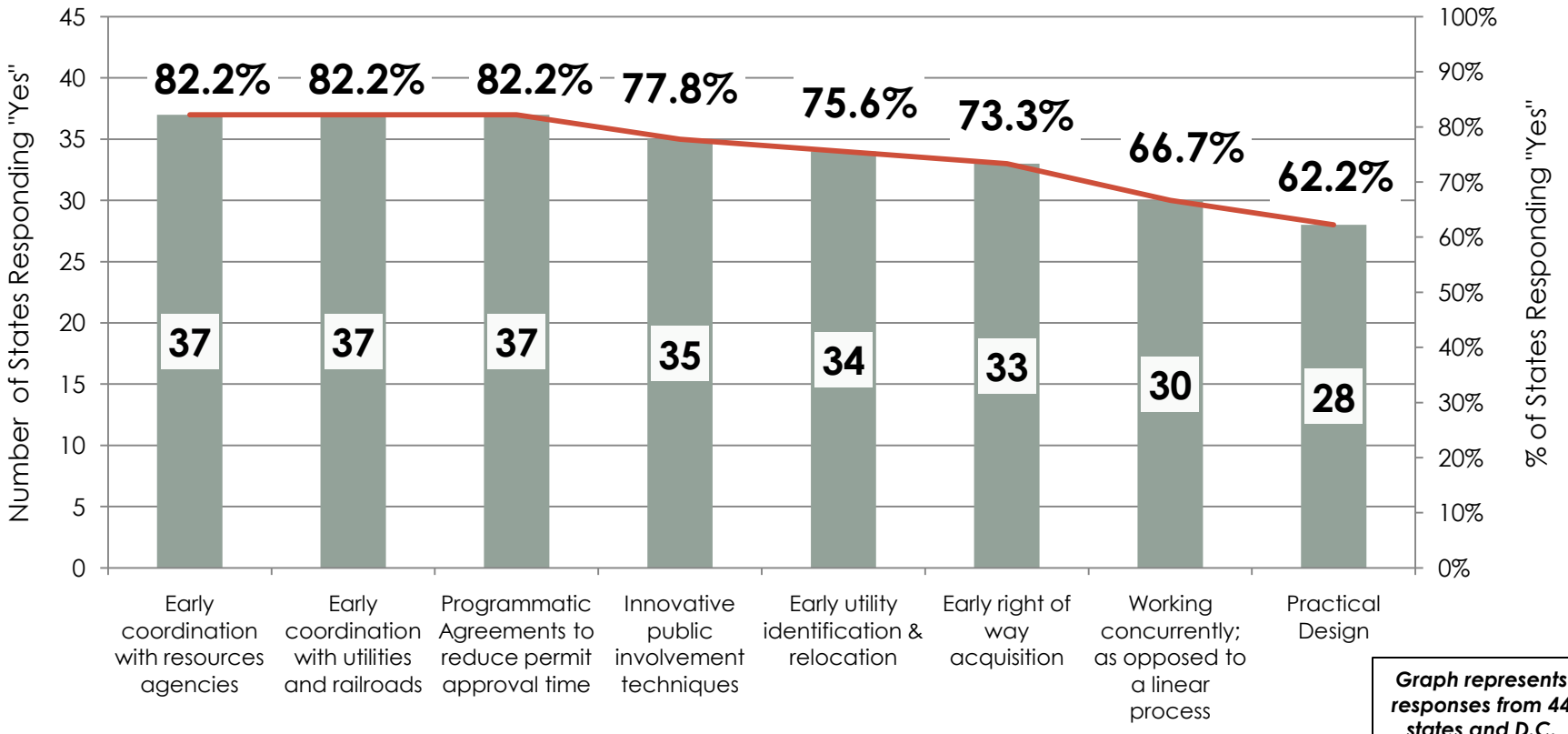
QUESTION 3 – Initiatives Implemented

What initiatives has your State implemented to improve on-time project delivery or streamline the project delivery process? (N & % of States Responding "Yes")



Graph represents responses from 44 states and D.C.

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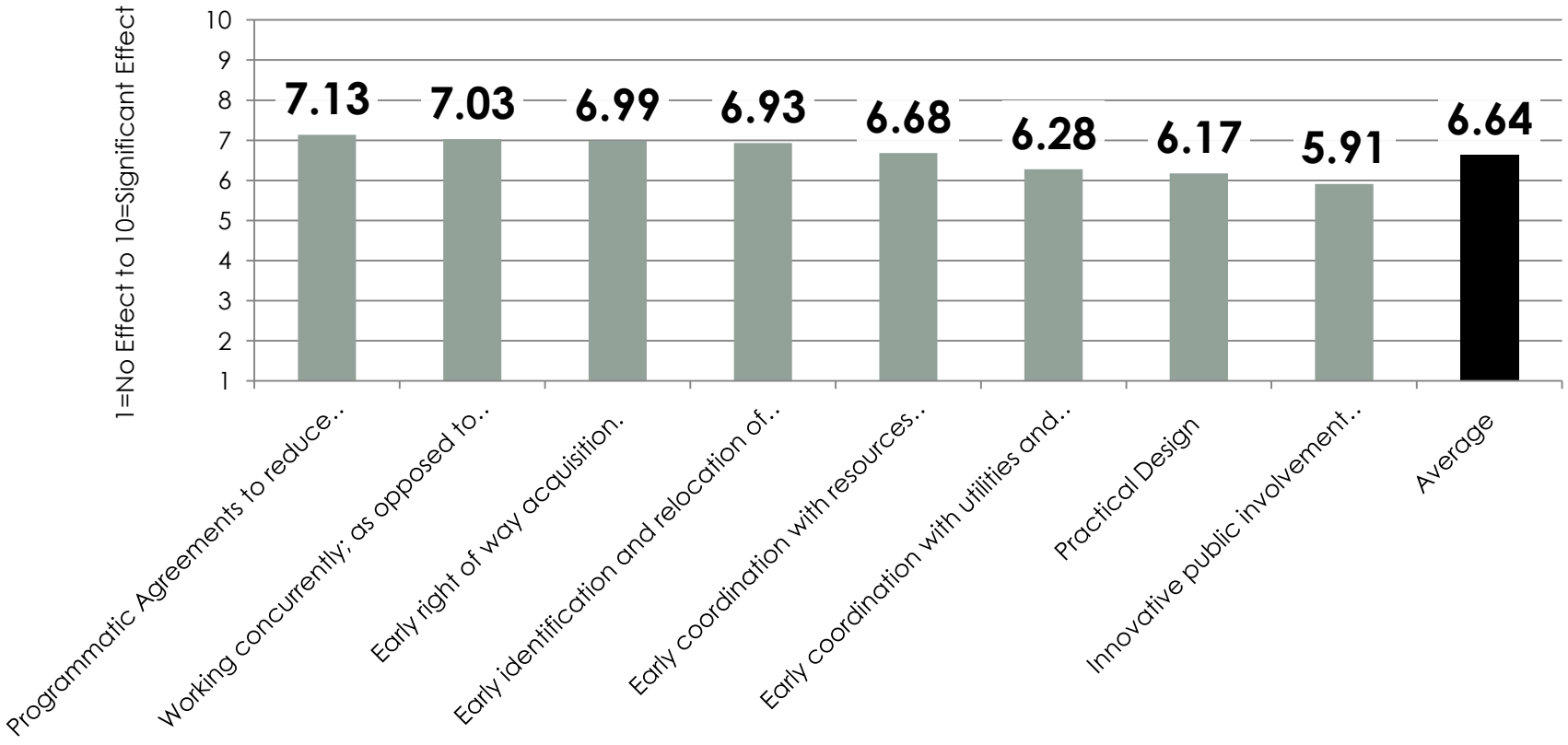
QUESTION 3 – Effectiveness of Initiatives *(Overall Averages)*

What initiatives has your State implemented to improve on-time project delivery or streamline the project delivery process?

Ratings of Effectiveness



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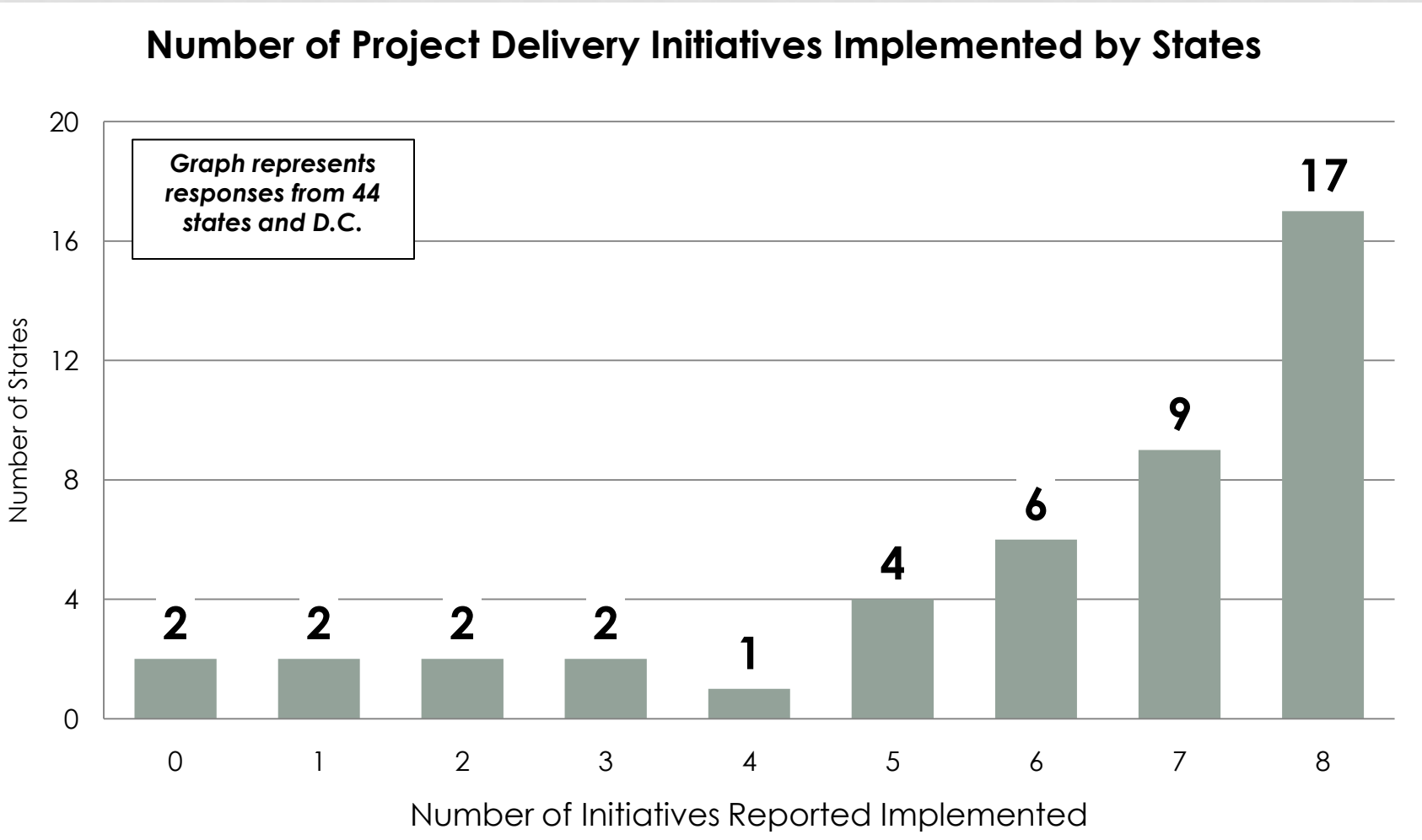
QUESTION 3 – Initiatives Implemented by States



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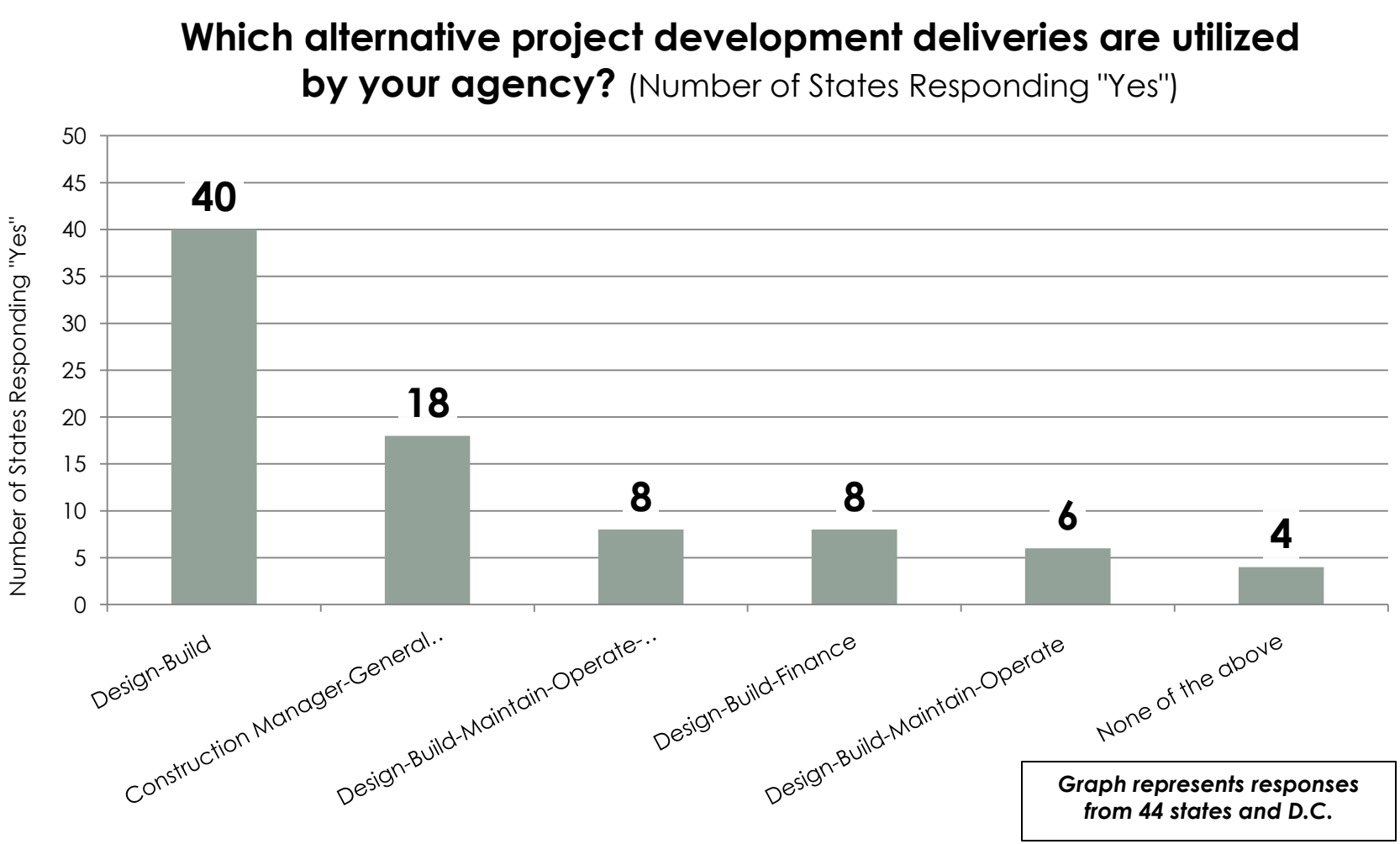
QUESTION 6 – Alternative Delivery Methods Utilized



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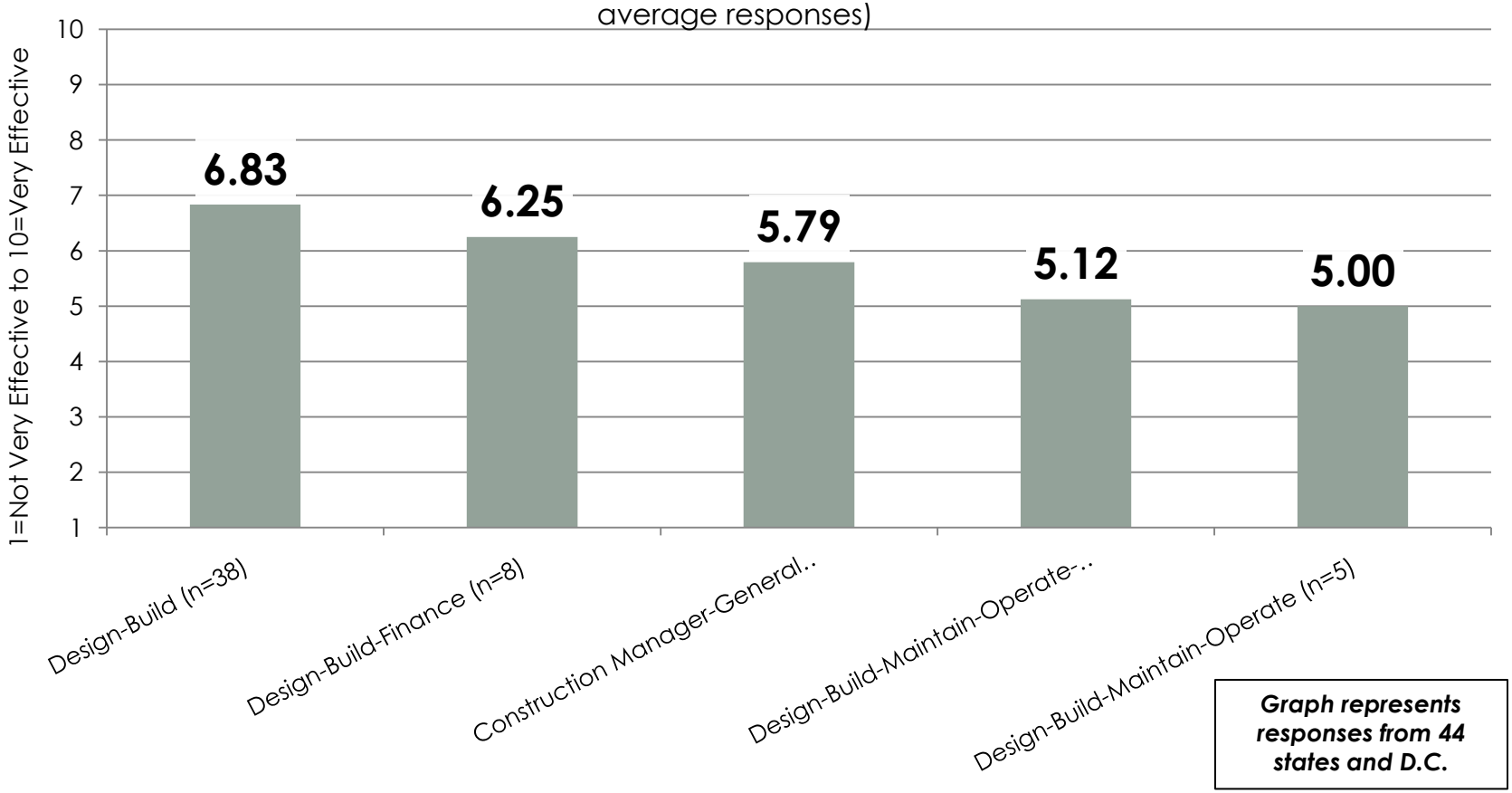
QUESTION 7 – Effectiveness of Alternative Methods



Graph represents responses from 44 states and D.C.

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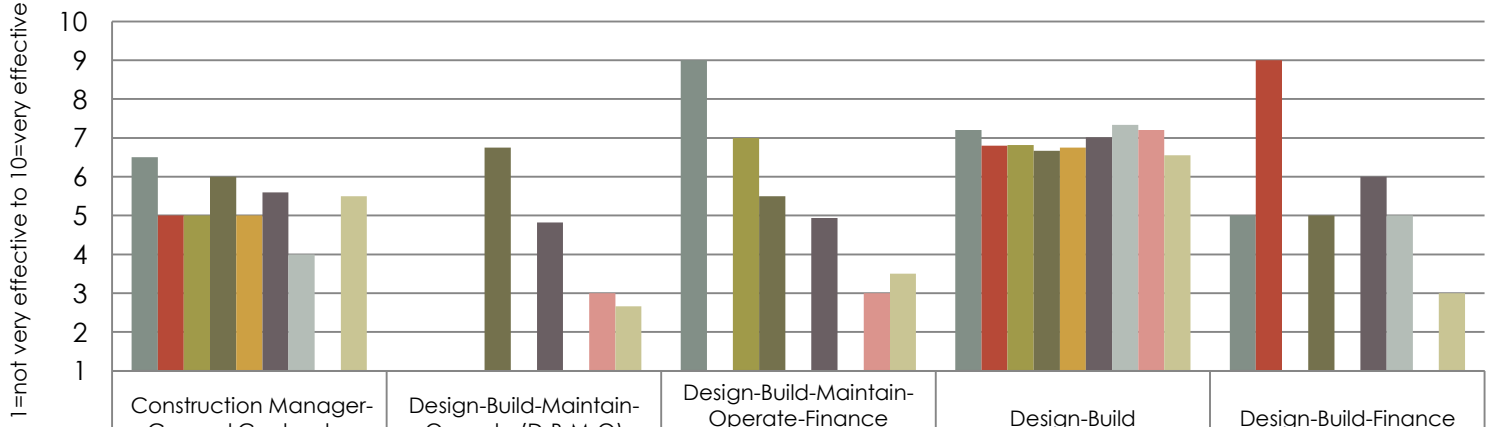
QUESTION 7 – Effectiveness of Alternative Methods *(Subgroup Ratings)*

How effective have they been in terms of reducing the time associated with project delivery?



	Construction Manager-General Contractor	Design-Build-Maintain-Operate (D-B-M-O)	Design-Build-Maintain-Operate-Finance (DBMOF)	Design-Build	Design-Build-Finance
Environment	6.50		9.00	7.20	5.00
Planning	5.00			6.80	9.00
Design	5.00		7.00	6.82	
Bridges & Structures	6.00	6.75	5.50	6.67	5.00
Maintenance	5.00			6.75	
Overall	5.60	4.82	4.93	7.01	6.00
Materials	4.00			7.33	5.00
ROW		3.00	3.00	7.20	
Construction	5.50	2.67	3.50	6.56	3.00

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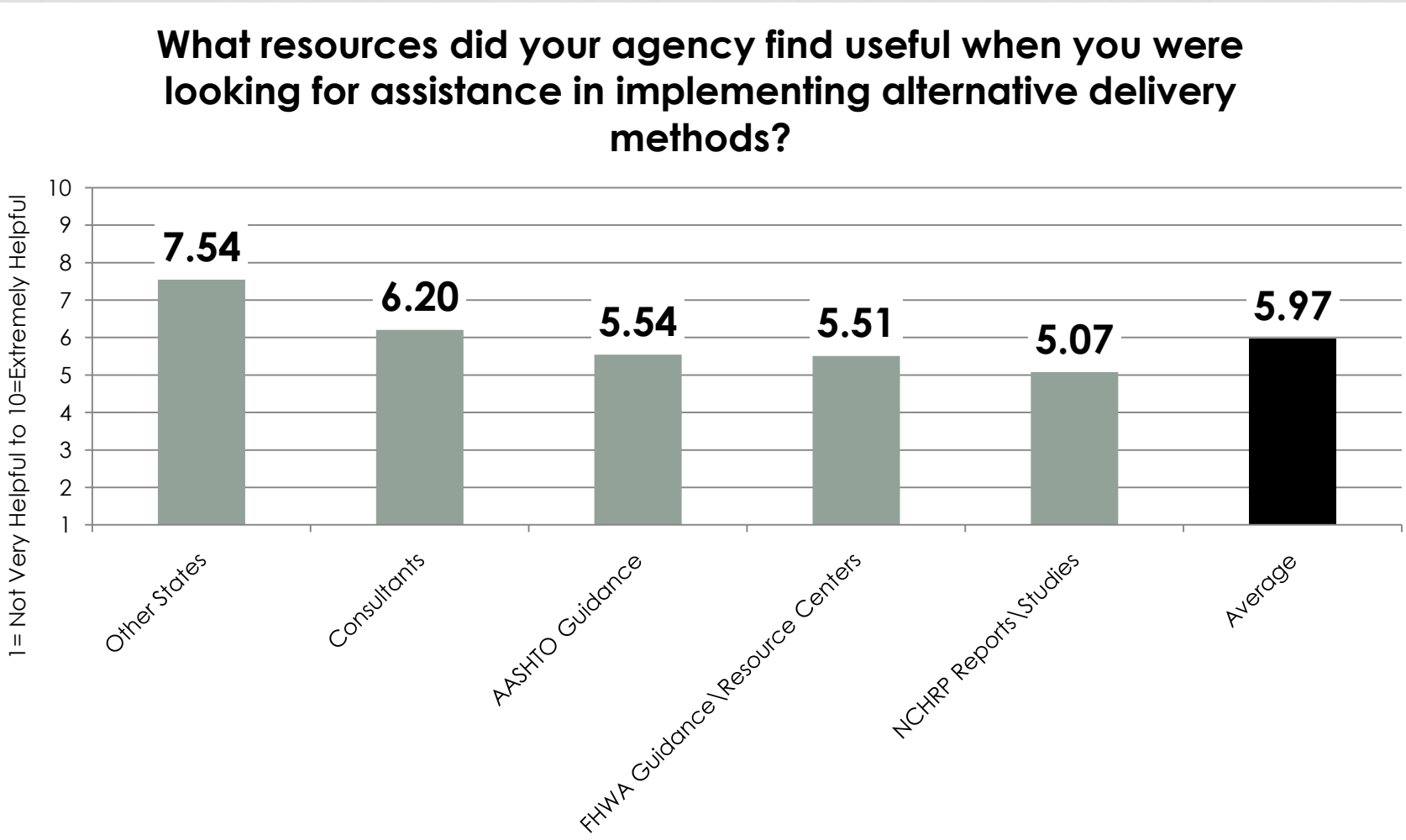
QUESTION 9 – Useful Resources *(Overall Averages)*



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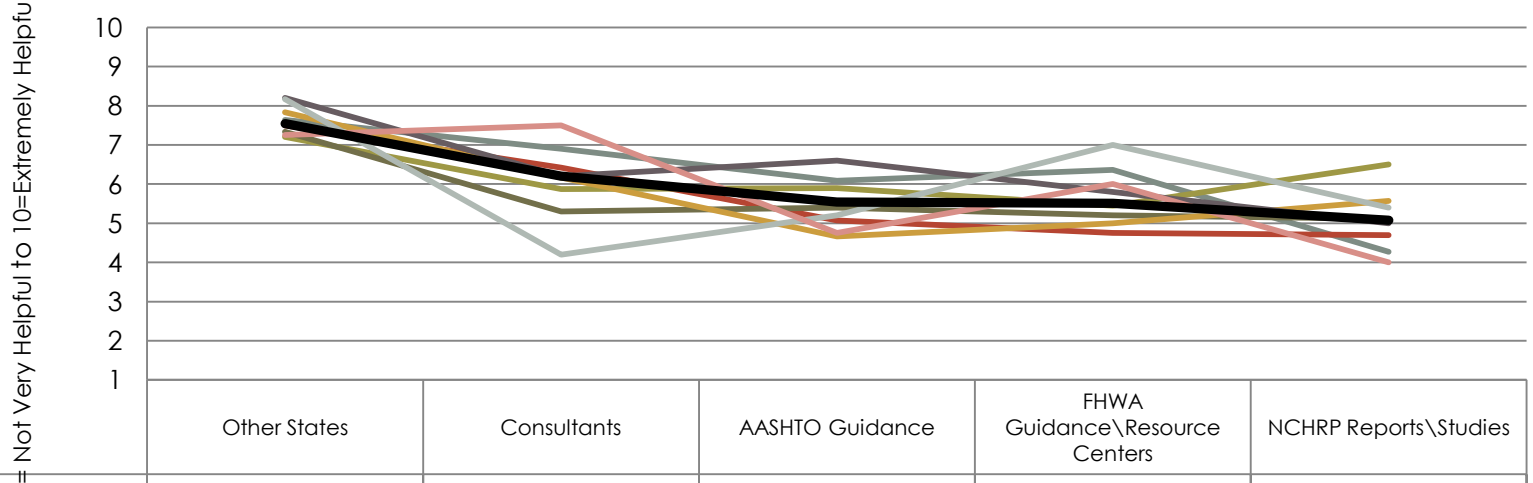
QUESTION 9 – Useful Resources *(Sub-Group Averages)*

What resources did your agency find useful when you were looking for assistance in implementing alternative delivery methods?



	Other States	Consultants	AASHTO Guidance	FHWA Guidance\Resource Centers	NCHRP Reports\Studies
Design	7.64	6.90	6.08	6.36	4.27
Bridges & Structures	7.50	6.42	5.07	4.75	4.69
Materials	7.20	5.88	5.90	5.44	6.50
Construction	7.33	5.30	5.40	5.20	5.11
Maintenance	7.83	6.17	4.67	5.00	5.57
Environment	8.20	6.20	6.60	5.80	5.00
ROW	8.17	4.20	5.20	7.00	5.40
Planning	7.25	7.50	4.75	6.00	4.00
OVERALL	7.54	6.20	5.54	5.51	5.07

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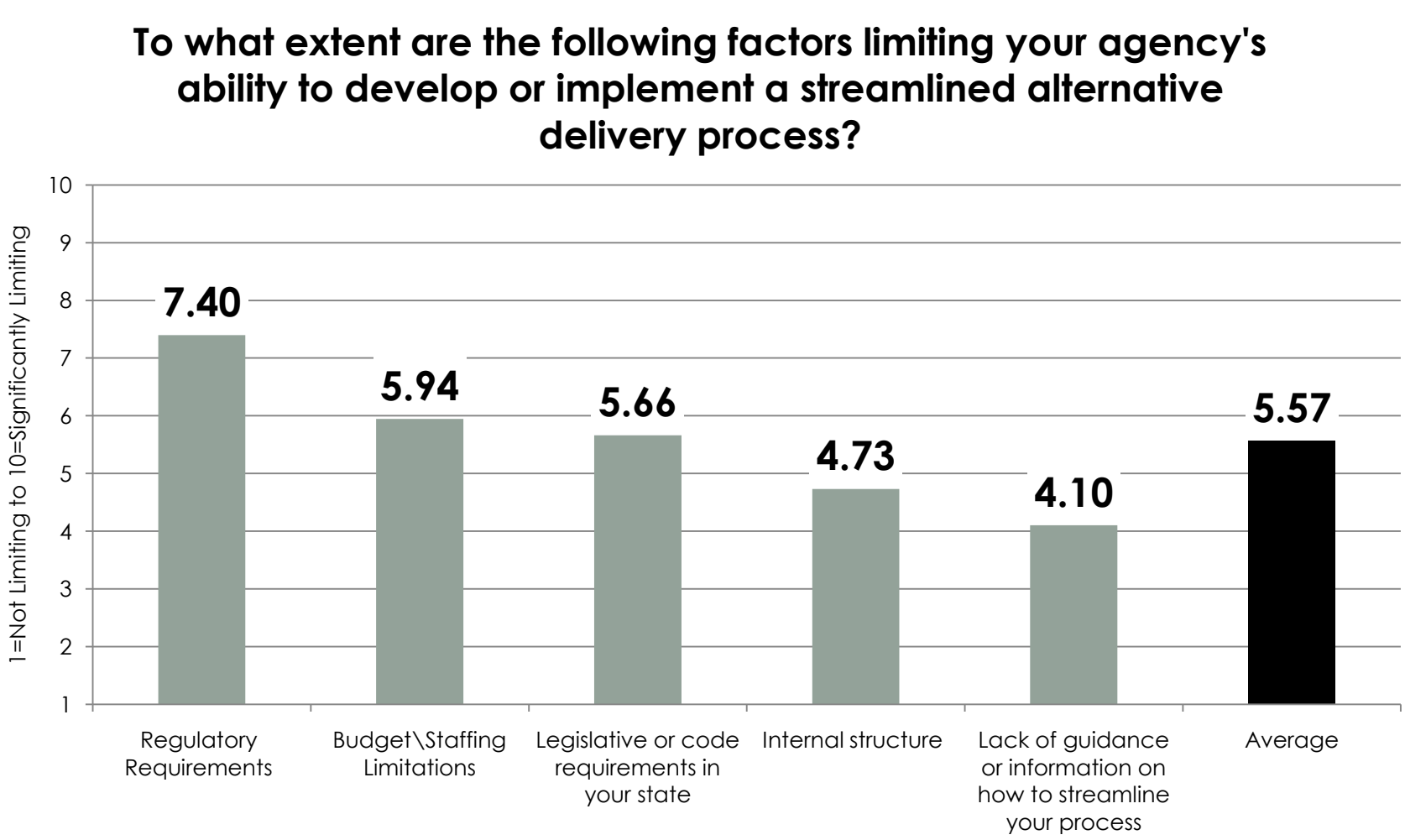
QUESTION 12 – Limiting Factors *(Overall Averages)*



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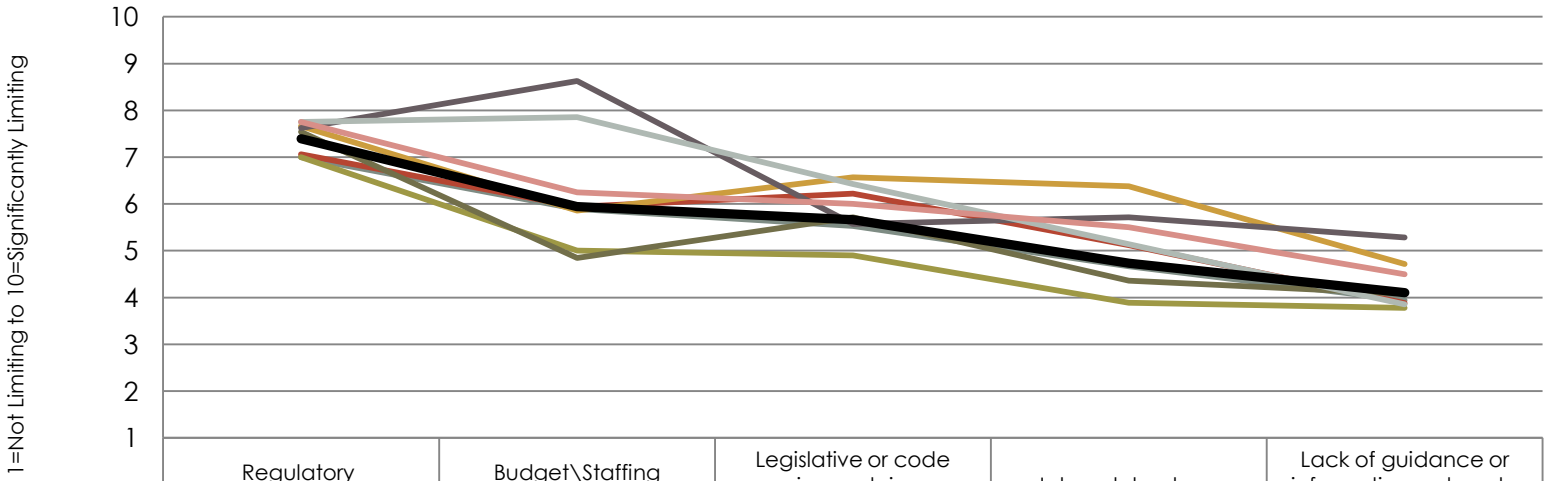
QUESTION 12 – Limiting Factors *(Sub-Group Averages)*

To what extent are the following factors limiting your agency's ability to develop or implement a streamlined alternative delivery process?



	Regulatory Requirements	Budget\Staffing Limitations	Legislative or code requirements in your state	Internal structure	Lack of guidance or information on how to streamline your process
Design	7.00	5.89	5.53	4.67	3.94
Bridges & Structures	7.06	5.94	6.22	5.12	3.88
Materials	7.00	5.00	4.90	3.89	3.78
Construction	7.54	4.85	5.71	4.36	4.08
Maintenance	7.67	5.86	6.57	6.38	4.71
Environment	7.62	8.63	5.57	5.71	5.29
ROW	7.75	7.86	6.43	5.14	3.86
Planning	7.75	6.25	6.00	5.50	4.50
OVERALL	7.40	5.94	5.66	4.73	4.10

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SUMMARY

Next Steps:

- The committee as a whole will review the results.
- Determine follow-up questions and areas that need additional clarification.
- Look for gaps and begin formulating a strategy to fill those gaps.

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Questions?

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A PRELIMINARY OVERVIEW OF RESULTS

THANK YOU!